

Specification for

**Harmonized system of
quality assessment for
electronic
components —
Semiconductor discrete
devices —
Blank detail
specification —**

**Signal diodes, switching diodes and
controlled avalanche diodes**

UDC 621.382.2

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National foreword

This Part of BS QC 750001 has been prepared under the direction of the Electronic Components Standards committee. It is identical with IEC Publication 747-3-2:1986 “*Semiconductor devices — Discrete devices — Part 3: Signal (including switching) and regulator diodes. Section 1 — Blank detail specification for signal diodes, switching and controlled-avalanche diodes excluding temperature-compensated precision reference diodes*” published by the International Electrotechnical Commission (IEC).

Terminology and conventions. The text of the International Standard has been approved as suitable for publication as a British Standard without deviation. Some terminology and certain conventions are not identical with those used in British Standards.

Cross-reference

International Standards ^a	Corresponding British Standards
IEC 68-2-17:1978	BS 2011 <i>Basic environmental testing procedures</i> Part 2.1Q:1981 <i>Tests Q. Sealing</i> (Identical)
IEC 747-3:1985	BS 6493 <i>Semiconductor devices: discrete devices and integrated circuits</i> Section 1.3:1986 <i>Recommendations for signal (including switching) and regulator diodes</i> (Identical)
IEC 747-10/QC 700000:1984	BS 9970 <i>Harmonized system of quality assessment for electronic components. Semiconductor devices</i> Part 0:1985 <i>Generic specification</i> (Identical)
IEC 747-11/QC 750000:1985	BS QC 750000:1986 <i>Harmonized system of quality assessment for electronic components. Discrete devices. Sectional specification</i> (Identical)
IEC 749:1984	BS 6493 <i>Semiconductor devices: discrete devices and integrated circuits</i> Part 3:1985 <i>Mechanical and climatic test methods</i> (Identical)

^a Some standards are undated in the text.

There is no corresponding British Standard for IEC 191, but BS 3934 “*Dimensions of semiconductor devices*” is a related standard.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 8 and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

Introduction

The IEC Quality Assessment System for Electronic Components is operated in conformance with the statutes of the IEC and under the authority of the IEC. The object of this system is to define quality assessment procedures in such a manner that electronic components released by one participating country as conforming with the requirements of an applicable specification are equally acceptable in all other participating countries without the need for further testing.

This blank detail specification is one of a series of blank detail specifications for semiconductor devices and shall be used with the following IEC publications:

- 747-10/QC 700000:1984, *Semiconductor Devices, Part 10: Generic Specification for Discrete Devices and Integrated Circuits*.
- 747-11/QC 750000:1985, *Semiconductor Devices, Part 11: Sectional Specification for Discrete Devices*.

Required information

Numbers shown in brackets on this and the following page correspond to the following items of required information, which should be entered in the spaces provided.

Identification of the detail specification

- [1] The name of the National Standards Organization under whose authority the detail specification is issued.
- [2] The IECQ number of the detail specification.
- [3] The number and issue number of the generic and sectional specifications.
- [4] The national number of the detail specification, date of issue and any further information required by the national system.

Identification of the component

- [5] Type of component.
- [6] Information on typical construction and applications. If a device is designed to satisfy several applications, this should be stated here. Characteristics, limits and inspection requirements for these applications shall be met. If a device is electrostatic sensitive, a caution statement should be added in the detail specification.
- [7] Outline drawing and/or reference to the relevant document for outlines.
- [8] Category of assessed quality.
- [9] Reference data on the most important properties to permit comparison between component types.

[Throughout this standard, the texts given in square brackets are intended for guidance to the specification writer and should not be included in the detail specification.]

[Throughout this standard, when a characteristic or rating applies, “x” denotes that a value shall be inserted in the detail specification.]